



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
Sivakasi**

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC,
College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

**PERCENTAGE OF SYLLABUS REVISION
2020 AND LATER**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOGY
2020 AND LATER


**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI,
SIVAKASI,
DEPARTMENT OF MICROBIOLOGY
B.SC MICROBIOLOGY – BDMB**
(For those who have joined in June 2020 and later)


S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	2
3.	Part III	27
4.	Part IV	4
Total		37

Total Number of Courses having changes : 37

Total Number of Courses : 44

Percentage of Revision : 84 %


Signature of the HOD


Signature of the Principal
PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI,



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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOGY
2020 AND LATER

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI**
(For those who have joined in 2020 and later)
B.Sc. Microbiology Programme Scheme

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. Hrs.	Marks Allotted		
						Internal	External	Total
Semester I								
Part I	BDGT11/ BDGH11/ BDGF11	தற்கால இலக்கியம்// Hindi Language Course – I / French Language Course – I	6	3	3	40	60	100
	Part II	BDGE11	English for communication-I	6	3	3	40	60
Part III	BDMB11	Major Courses Microbiology & Microbial diversity	4	4	3	40	60	100
	BDMB12	Food Microbiology	3	3	3	40	60	100
	BDMB1L	Practical I	3	2	3	50	50	100
	BDMB1A	Allied Courses Basic Biochemistry	4	4	3	40	60	100
	-	Allied Practical	2	-	-	-	-	-
Part IV	BDDES11	Value Added Course Environmental studies	2	2	2	40	60	100
Total			30	21				700
Semester II								
Part I	BDGT21/ BDGH21/ BDGF21	காப்பிய இலக்கியம்/முற்பகுதி/நாடகம் / Hindi Language Course -II / French Language Course – II	6	3	3	40	60	100
	Part II	BDGE21	English for communication-II	6	3	3	40	60
Part III	BDMB21	Major Courses Microbial Physiology & Metabolism	5	5	3	40	60	100
	BDMB2L	Practical II	3	2	3	50	50	100
	BDMB2A	Allied Courses Cell & Molecular Biology	4	4	3	40	60	100
	BDMB2AL	Allied Practical I	2	2	3	50	50	100
Part IV	BDVG21	Value Added Course Value Education & Gender Studies	2	2	2	40	60	100
	BDCL23	Skill Based Course Introduction to Computers & MS office	2	2	2	40	60	100
Part V	BDSA2	Social Awareness Programme & Physical Education	-	1	-	-	-	100
Total			30	24				900
Semester III								
Part I	BDGT31/ BDGH31/ BDGF31	காப்பிய இலக்கியம்// Hindi Language Course –III / French Language Course – III	6	3	3	40	60	100
	Part II	BDGE31	English for enrichment-I	6	3	3	40	60
		Major Courses	5	5	3	40	60	100




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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOGY
2020 AND LATER

Part IV	BDSE67/ BDJO	Skill Based Courses Self-Employment/ Job Oriented courses – Theory	2	2	2	40	60	100
	BDSE67L/BDJO	Self-Employment/ Job Oriented courses – Practical	2	2	3	50	50	100
	-	Library and Information Science	1	-	-	-	-	-
Total			30	26				700

Field visit mandatory for the course- BDMB6L2 –PRACTICAL VIII


Signature of HOD


Signature of Principal
Dr. T. Palaneeswarl
PRINCIPAL
The Standard Fireworks Rajaratnam
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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

**PERCENTAGE OF SYLLABUS REVISION
2017 AND LATER**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISIONN
B.SC MICROBIOLOGY
2017 AND LATER


**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI.**
DEPARTMENT OF MICROBIOLOGY
B.SC MICROBIOLOGY – GLMB
(For those who have joined in June 2017 and later)


S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	1
4.	Part IV	9
Total		18

Total Number of Courses having changes :18

Total Number of Courses :42

Percentage of Revision : 42.8%


Signature of the HOD


Signature of the Principal
Dr. T. Palaneeswari
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOGY
2017 AND LATER

Subject		Semester						Total
		I	II	III	IV	V	VI	
Language Courses								
Part I: Tamil Language course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part II: English Language course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part III: Major and Allied Courses								
a) Major	Theory	Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)
		Course II	3(3)	-	3(3)	-	5(5)	5(5)
		Course III	-	-	-	-	5(5)	5(5)
	Practical	Lab I	3(*)	3(4)	3(*)	3(4)	6(5)	6(4)
		Lab II	-	-	-	-	3(*)	3(4)
b) Allied	Theory	4(4)	4(4)	4(4)	4(4)	-	-	
	Practical	2(*)	2(2)	2(*)	2(2)	-	-	
Total		11	15	11	15	20	23	95
Part IV: Non – Major /Value Added Courses								
Peace Education		2(2)	-	-	-	-	-	
Environmental studies		-	2(2)	-	-	-	-	
i) NME I		-	-	2(2)	-	-	-	
ii) NME II		-	-	-	2(2)	-	-	
1) Computer Literacy		-	2(2)	-	-	-	-	
2) Discipline specific course		-	-	-	2(2)	-	-	
3) Career Guidance and Subject Viva		-	-	-	-	2(2)	-	
4) Women Studies		-	-	-	-	2(2)	-	
5) Self Employment / Job Oriented Courses – Theory		-	-	-	-	-	2(2)	
6) Self Employment/ Job Oriented Courses – Practical/ Field work/ Project		-	-	-	-	-	2(2)	
Library and Information Science		-	-	-	-	1(*)	1(*)	
Total		2	4	2	4	4	4	20
Part V : Extension Activities - Physical Education & Social Awareness Programme								
NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League/Red Ribbon club/Citizen Consumer club/Environmental club				(*) (1)	----			1
Total								140

S. S. R.
Signature of HOD

T. Palanivesi
Signature of Principal
Dr. T. Palaneeswari
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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOGY
2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI (For those who have joined in 2017 and later) B.Sc. Microbiology Programme Scheme									
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted			
						Internal	External	Total	
Semester I									
Part I	GLGT11/ GLGH11/ GLGF11	சங்க இலக்கியமும் உரைநடையும்/ Hindi Language Course - I/ French Language Course - I	6	3	3	25	75	100	
Part II	GLEN11	Communicative English-I	6	3	3	25	75	100	
Part III	GLMB11	Major course Microbiology & Microbial Techniques	4	4	3	25	75	100	
	GLMB12	Food Microbiology	3	3	3	25	75	100	
	GLMB1A	Allied course Biochemistry	4	4	3	25	75	100	
Part IV	GLPET1	Value added course Peace Education	2	2	2	25	75	100	
Total			25	19				600	
Semester II									
Part I	GLGT21/ GLGH21/ GLGF21	சாப்பிய இலக்கியமும் புதினமும்/ Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100	
Part II	GLEN21	Communicative English-II	6	3	3	25	75	100	
Part III	GLMB21	Major course Microbial Taxonomy & Physiology	5	5	3	25	75	100	
	GLMB2A	Allied course Industrial Microbiology	4	4	3	25	75	100	
	GLMB2L	Practical-I	3+3	4	3	40	60	100	
	GLMB2AL	Allied Practical - I	2+2	2	3	40	60	100	
Part IV	GLS21	Value Added Course Environmental studies	2	2	2	25	75	100	
	GLCL23	Skill based course Introduction to Computers and MS office	2	2	2	25	75	100	
Part V	-	Extension Activities – Physical Education and Social Awareness Programme		1				100	
Total			35	26				900	
Semester III									
Part I	GLGT31/ GLGH31/ GLGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course -III / French Language Course - III	6	3	3	25	75	100	
Part II	GLEN31	Communicative English-III	6	3	3	25	75	100	
Part III	GLMB31	Major course Fundamentals of Immunology	4	4	3	25	75	100	



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PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOGY
2017 AND LATER

	GLMB32	Cell & Molecular Biology	3	3	3	25	75	100
	GLMB3A	Allied course Computer Application in Biology	4	4	3	25	75	100
Part IV	GLMBSN	Non Major Elective I Fundamentals of Microbiology	2	2	2	25	75	100
	Total		25	19				600
Semester IV								
Part I	GLGT41/ GLGH41/ GLGF41	கவிதை இலக்கியமும் சிறுகதையும் Hindi Language Course -IV/ French Language Course - IV	6	3	3	25	75	100
Part II	GLEN41	Communicative English - IV	6	3	3	25	75	100
	GLMB41	Major course Microbial Genetics	5	5	3	25	75	100
Part III	GLMB4A	Allied course Bioinformatics	4	4	3	25	75	100
	GLMB4L	Practical-II	3+3	4	3	40	60	100
	GLMB4AL	Allied Practical – II	2+2	2	3	40	60	100
	GLMB4N	Non Major Elective II Mushroom Technology	2	2	2	25	75	100
Part IV	GLPH4DSL	Skill Based Course Discipline Specific Course Scientific Skill Development	2	2	2	40	60	100
	Total		35	25				800
Semester V								
	GLMB51	Major course Medical Microbiology	6	5	3	25	75	100
Part III	GLMB5L	Practical-III	6	5	3	40	60	100
	GLMB5E1/ GLMB5E2	Major Elective course Recombinant DNA Technology/ Virology	5	5	3	25	75	100
	GLMB5E3/ GLMB5E4	Major Elective course Agricultural Microbiology/ Medical Biotechnology	5	5	3	25	75	100
Part IV	GLGV51	Value Added Course Career Guidance and Subject Viva	2	2	2	25	75	100
	GLWS51	Value Added Course Women Studies	2	2	2	25	75	100
	Total		26	24				600
Semester VI								
	GLMB61	Major course Environmental Microbiology	6	5	3	25	75	100
Part III	GLMB62	Microbial Biotechnology	5	5	3	25	75	100
	GLMB6L1	Practical-IV	3+3	4	3	40	60	100
	GLMB6L2	Practical - V	6	4	3	40	60	100
	GLMB6E1/ GLMB6E2	Major Elective course Genomics and proteomics / Nanobiotechnology	5	5	3	25	75	100
Part IV	GLSE6//GLJO	Skill based course Self-Employment/Job Oriented Courses- Catering Tech. & Hotel Mgt.- Theory	2	2	3	25	75	100



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PERCENTAGE OF SYLLABUS REVISION
B.SC MICROBIOLOG
2017 AND LATER

GLSE67L/GLJO	Self-Employment/Job Oriented Courses- Catering Tech. & Hotel Mgt.- Practical Practical.	2	2	3	40	60	100
-	Library and Information science	1					
	Total	33	27				700

S.S. P...
Signature of HOD

T. Palaneeswar
Signature of Principal
Dr. T. Palaneeswar
PRINCIPAL
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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

**PERCENTAGE OF SYLLABUS REVISION
2014 AND LATER**



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PERCENTAGE OF SYLLABUS REVISIONN
B.SC MICROBIOLOGY
2014 AND LATER


**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN(AUTONOMOUS),
SIVAKASI.**
DEPARTMENT OF MICROBIOLOGY
B.SC., MICROBIOLOGY – 14UMB
(For those who have joined in June 2014 and later)


S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	4
4.	Part IV	4
Total		16

Total Number of Courses having changes :16

Total Number of Courses :39

Percentage of Revision : 41.02%


Signature of HOD


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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISIONN
B.SC MICROBIOLOGY
2014 AND LATER

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, (AUTONOMOUS)
SIVAKASI**

**B.Sc Microbiology- Allotment of Hours and Credits
(for those who joined in 2014 and later)**

Subject		Semester						Total
		I	II	III	IV	V	VI	
Language Courses								
Part I: Tamil Language course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part II: English Language course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part III: Major and Allied Courses								
a) Major	Theory	Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)
		Course II	3(3)	-	3(3)	-	5(5)	5(5)
		Course III	-	-	-	-	5(5)	5(5)
	Practical	Lab	3(*)	3(4)	3(*)	3(4)	6(5)	6(5)
		Project	-	-	-	-	3(*)	3(3)
b) Allied	Theory	4(4)	4(4)	4(4)	4(4)	-	-	
	Practical	2(*)	2(2)	2(*)	2(2)	-	-	
Total		11	15	11	15	20	23	95
Part IV: Non – Major /Value Added Courses								
Peace Education		2(2)	-	-	-	-	-	20
Environmental studies		-	2(2)	-	-	-	-	
i) NME I		-	-	2(2)	-	-	-	
ii) NME II		-	-	-	2(2)	-	-	
1) Computer Literacy		-	2(2)	-	-	-	-	
2) Soft Skill enhancement		-	-	-	2(2)	-	-	
3) Career Guidance and Subject Viva		-	-	-	-	2(2)	-	
4) Women Studies		-	-	-	-	2(2)	-	
5) Self Employment / Job Oriented Courses – Theory		-	-	-	-	-	2(2)	
6) Self Employment/ Job Oriented Courses – Practical/ Field work/ Project		-	-	-	-	-	2(2)	
Library and Information Science		-	-	-	-	1(*)	1(*)	
Total		2	4	2	4	4	4	
Part V : Extension Activities - Physical Education & Social Awareness Programme								
NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League		(*)		(1) --	--			
Total								140

S. S. R.
Signature of HOD

T. Palavesu
Signature of Principal

PRINCIPAL
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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISIONN
B.SC MICROBIOLOGY
2014 AND LATER

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SIVAKASI**
(For those who have joined in 2014 and later)
B.Sc. Microbiology Programme Scheme

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester I								
Part I	14UGT11/ 14UGH11/ 14UGF11	சங்க இலக்கியமும் உரைநடையும் Hindi Language Course – I/ French Language Course - I	6	3	3	25	75	100
Part II	14UEN11	Communicative English-I	6	3	3	25	75	100
Part III	14UMB11	Major course Microbiology & Microbial Techniques	4	4	3	25	75	100
	14UMB12	Food Microbiology	3	3	3	25	75	100
	14UMB1A	Allied course Biochemistry	4	4	3	25	75	100
Total			23	17				500
Semester II								
Part I	14UGT21/ 14UGH21/ 14UGF21	காப்பிய இலக்கியமும் புதினமும்/ Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100
Part II	14UEN21	Communicative English-II	6	3	3	25	75	100
Part III	14UMB21	Major course Microbial Taxonomy & Physiology	5	5	3	25	75	100
	14UMB2A	Allied course Medical Microbiology	4	4	3	25	75	100
	14UMB2L	Practical-I	3+3	4	3	40	60	100
	14UMB2AL	Allied Practical – I	2+2	2	3	40	60	100
Part IV	14UES21	Value Added Course Environmental studies	2	2	2	25	75	100
Total			28	23				700
Semester III								
Part I	14UGT31/ 14UGH31/ 14UGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course –III / French Language Course - III	6	3	3	25	75	100
Part II	14UEN31	Communicative English-III	6	3	3	25	75	100
Part III	14UMB31	Major course Microbial Genetics	4	4	3	25	75	100
	14UMB32	Cell & Molecular Biology	3	3	3	25	75	100
	14UMB3A	Allied course Bioinformatics	4	4	3	25	75	100
Part IV	14UMB3NM	Non Major Elective I	2	2	2	25	75	100



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DEPARTMENT OF MICROBIOLOGY
PERCENTAGE OF SYLLABUS REVISIONN
B.SC MICROBIOLOGY
2014 AND LATER

			Total	25	19				600
Semester IV									
Part I	14UGT41/ 14UGH41/ 14UGF41	கவிதை இலக்கியமும் சிறுகதையும் Hindi Language Course -IV/ French Language Course - IV	6	3	3	25	75	100	
Part II	14UEN41	Communicative English-IV	6	3	3	25	75	100	
Part III	14UMB41	Major course Immunology & Immuno techniques	5	5	3	25	75	100	
	14UMB4A	Allied course Computation Application in Biology	4	4	3	25	75	100	
	14UMB4L	Practical-II	3+3	4	3	40	60	100	
	14UMB4AL	Allied Practical – II	2+2	2	3	40	60	100	
Part IV	14UMB4NM	Non Major Elective II	2	2	2	25	75	100	
Total			28	23					700
Semester V									
Part III	14UMB51	Major course Virology	6	5	3	25	75	100	
	14UMB5L	Practical-III	6	5	3	40	60	100	
	14UMB5E1	Major Elective course Recombinant DNA Technology	5	5	3	25	75	100	
	14UMB5E2	Industrial Microbiology	5	5	3	25	75	100	
	14UMB5E3	Major Elective course Agricultural Microbiology	5	5	3	25	75	100	
	14UMB5E4	Medical Biotechnology	5	5	3	25	75	100	
Total			32	30					600
Semester VI									
Part III	14UMB61	Major course Environmental Microbiology	6	5	3	25	75	100	
	14UMB62	Microbial Biotechnology	5	5	3	25	75	100	
	14UMB6L1	Practical-IV	3+3	4	3	40	60	100	
	14UMB6L2	Practical - V	6	4	3	40	60	100	
	14UMB6E1	Major Elective course Genomics and proteomics	5	5	3	25	75	100	
	14UMB6E2	Nanobiotechnology	5	5	3	25	75	100	
Part IV	14USE67	Catering Tech. & Hotel Mgt.	2	2	3	25	75	100	
	14USE67L	Catering Tech. & Hotel Mgt. Prac	2	2	3	25	75	100	
Total			34	32					600

S.S.P.
Signature of HOD

T. Palavesoni
Signature of Principal
PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.